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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 06/15/2000 08305/073001/99-08/99-09/ 2057 09/595,592 Anders Andersson EXAMINER 04/26/2004 7590 TILLERY, RASHAWN N

Micron Technology c/o Tom D'Amico Dickstein, Shapiro, Moran & Oshinsky 2101 L Street NW Washington, DC 20037-1526

2612 DATE MAILED: 04/26/2004

ART UNIT

PAPER NUMBER

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/595,592	ANDERSSON, ANDERS
	Examiner	Art Unit
	Rashawn N Tillery	2612
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).		
Status		
1)⊠ Responsive to communication(s) filed on <u>26 March 2004</u> .		
<u> </u>	action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
 4) Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) 9 is/are withdrawn from consideration. 5) Claim(s) 13-17 is/are allowed. 6) Claim(s) 1 and 2 is/are rejected. 7) Claim(s) 3-8 and 10-12 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 		
Application Papers		
9) The specification is objected to by the Examiner.		
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 		
Attachment(s)		
1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6.	Paper No(s)/Mail Da	

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DETAILED ACTION

Election/Restrictions

Claim 9 withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim.

Applicant timely traversed the restriction (election) requirement in Paper No. 10.

Regarding Applicant's arguments that the search for- and examination of- the nonelected species would involve no undue burden, the examiner respectfully disagrees. The examiner contends that the claim is directed to patentably distinct species related to a gain selector in figure 7.

The examiner notes that claims 3 and 13 are generic and the depending claims therefrom will be examined on the merits.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-2 are rejected under 35 U.S.C. 102(e) as being anticipated by Brehmer et al (US6130423).

Regarding claim 1, Brehmer discloses, in figure 6, an imaging device comprising:

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a plurality of active pixel sensor cells, each having a photosensor (620), a row select transistor (650), and an output transistor (621) including a gate connected to a pixels output voltage (Vdd); and

a readout circuit (602) connectable to each of the APS cells, the readout circuit including an amplifier (621, 625, 630, 650, 655; see col. 5, line 56 to col. 6, line 6), the amplifier including the row select transistor and the output transistor of each of a plurality of the active pixel sensor cells.

Regarding claim 2, discloses the amplifier provides a gain of about one or higher (se col. 5, lines 56-58).

Allowable Subject Matter

1. Claims 3-8 and 10-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding claim 3, the prior art does not teach or fairly suggest an imaging device wherein the amplifier comprises a first branch comprising a first transistor, row select transistor and output transistor, a second branch comprising a second transistor, third transistor and source follower.

2. Claims 13-17 are allowed.

Regarding claim 3, the prior art does not teach or fairly suggest an imaging device comprising a plurality of active pixel sensor cells, a readout circuit including an amplifier wherein the amplifier comprises a first branch comprising a first transistor, row

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select transistor and output transistor, a second branch comprising a second transistor, third transistor and source follower.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Sauer teaches an APS readout structure. Kozlowski et al teach a readout structure of an APS circuit.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rashawn N Tillery whose telephone number is 703-305-0627. The examiner can normally be reached on 9AM-6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy Garber can be reached on 703-305-4929. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RNT